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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,393	08/27/2003	Kenichi Mitsumori	9281-4664	6750
Gustavo Siller,	7590 12/12/2007		EXAM	INER
BRINKS HOFER GILSON & LIONE			STINSON, FRANKIE L	
P.O. BOX 1039 CHICAGO, IL	· ·		ART UNIT	PAPER NUMBER
,			1792	
			MAIL DATE	DELIVERY MODE
			12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
·	10/650,393	MITSUMORI ET AL.				
Office Action Summary	Examiner	Art Unit				
	FRANKIE L. STINSON	1746				
The MAILING DATE of this commun	nication appears on the cover sheet with					
Period for Reply						
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE N Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this come If NO period for reply is specified above, the maximum s' Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF THIS COMMUNIC s of 37 CFR 1.136(a). In no event, however, may a re- nunication. tatutory period will apply and will expire SIX (6) MONT will, by statute, cause the application to become ARA	ATION.  ply be timely filed  "HS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133)				
Status		•				
1) Responsive to communication(s) file	ed on 19 October 2007					
	2b)⊠ This action is non-final.					
	,					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
,	: .	11, 400 0.0. 210.				
Disposition of Claims		x-				
4)⊠ Claim(s) 16-19 and 27-36 is/are pending in the application.						
4a) Of the above claim(s) is/a	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>16-19 and 27-32</u> is/are allowed.						
6)⊠ Claim(s) <u>33,34 and 36</u> is/are rejected.						
7)⊠ Claim(s) <u>35</u> is/are objected to.						
8) Claim(s) are subject to restrict	ction and/or election requirement.	· · · · · · · · · · · · · · · · · · ·				
Application Papers						
9) The specification is objected to by the	o Evaminar	:				
		v the Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
· · · · · · · · · · · · · · · · · · ·	the correction is required if the drawing(s					
11) The oath or declaration is objected to						
	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim	for foreign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:		•				
1. Certified copies of the priority documents have been received.						
<ul> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
	•	eceived in this National Stage				
	onal Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action	on for a list of the certified copies not re	eceived.				
		•				
	÷					
Attachment(s)						
1) Austice of Preferences Cited (PTO 882)		mmary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application						
Paper No(s)/Mail Date	6) Other:	- · · · · · · · · · · · · · · · · · · ·				

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- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 33, 34 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Williams et al. (U. S. Pat. No. 4,069,541) in view of either Harris (U. S. Pat. No. 2,848,672) or Olsson et al. (U. S. Pat. No. 6,153,964).

Re claim 33, Williams is cited disclosing all of the claimed subject particularly a wet treatment nozzle comprising:

an ultrasonic cleaner comprising a housing, an ultrasonic transducer (22') placed on a bottom surface of the housing,

an introduction passage (25) with a first frame for introducing a treatment liquid on a side of the ultrasonic cleaner:

an exhaust passage (15') with a second frame which exhausts the treatment liquid on an other side of the ultrasonic cleaner after a wet treatment of an object to be treated, the exhaust passage exhausting the treatment liquid that wet treated the object;

wherein the ultrasonic cleaner, while vibrating, guides the treatment liquid to wet treat the object to be treated that differs from the claim only in the recitation of the weight minimizing propagation of energy from the ultrasonic transducer to a wall of the housing by shifting the characteristic frequency of the wall of the housing. The patent to Harris (as at 33, 50) and Olsson (as at 9) are each cited disclosing sonic arrangements, where the sonic arrangements are provided with a weight for controlling the propagation

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of the ultrasonic waves as is common the in sonic/vibrator art. It therefore would have been obvious to one having ordinary skill in the art to modify the ultrasonic cleaner in Williams, to include a weight as taught by either Harris or Olsson, for the purpose of increasing the efficiency and stability of the transducer and the efficacy of the sonic wave transmission since it is old and know in the are to remove parasitic/interfering waves. Re claims 34, Williams disclose the frames defining a flow path. Re claims 36, to have the weight ring-shaped is of little patentable weight in view of the shapes in either Harris or Olsson.

- 3. Claim16-19 and27-32 stand allowed.
- 4. Claims 35 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Applicant's arguments with respect to the pending claims have been considered but are most in view of the new ground(s) of rejection.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANKIE L. STINSON whose telephone number is (571) 272-1308. The examiner can normally be reached on M-F from 5:30 am to 2:00 pm and some Saturdays from approximately 5:30 am to 11:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached on (571) 272-1700. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FRANKIE L. STINSON
PRIMARY EXAMINER
ART UNIT 242 1700